



Project Expenditures And Results

- September 2008 -

PAYING FOR RESULTS

MoDOT has expended funds in support of the Safe & Sound project totaling \$15.6 million. MoDOT is using that investment in current and future applications as listed below. Results are sorted in larger categories of the **Limited Notice to Proceed**, **Stipend** payments to proposing teams on the Safe & Sound project, **Utility Location** efforts and **Miscellaneous** expense categories.

LIMITED NOTICE TO PROCEED - \$10 MILLION

- New and innovative bridge design standards that emphasize speed of construction and standardized bridge components.
- Design plans for a menu of different bridge designs.
- Standardized design methods for large-scale projects.
- 100% plans for bridges requiring rehabilitation.
- Field Data Collection
 - Topographic surveys
 - Hydraulic survey and analysis
 - Geotechnical borings and analyses
- Treatment strategy and evaluation for all bridges.
- Draft Quality Assurance Manual
- Public Involvement Plan and strategies (sample ads, postcard notices, press releases, etc.).

STIPENDS – \$4 MILLION

- Innovative bridge designs:
 - Emphasizing speed of construction.
 - Standardization and use of a “manufacturing” process for pre-cast components.
- Innovative field erection methods that reduce maintenance and extend design life.
- Overall public outreach strategy.
- Schedule for construction – demonstrating 802 bridges could be completed in 5 years.
- Traffic control plan for high traffic-volume bridges.
- Identified optimal detour routes for all program bridges.

- Provided innovative concepts to improve upon MoDOT's Practical Design approach to bridge and guardrail design.
- Wide menu of deck treatment strategies through reducing maintenance.
- Best practices from other states (alternate design standards) lessons learned, and bridge inspection and rating guidelines.
- Boosted bridge rating guidelines.
- Maintenance plan and cost estimate to maintain bridges in good condition for 25 years.
- Provided a bridge lifecycle maintenance cost analysis model.
- Menu of maintenance options based on capital and maintenance approach.
- Multi-sequencing construction efficiencies (painting, seeding, etc., following bridge opening to traffic to minimize impact to the traveling public).
- Recycle temporary structures into permanent bridges.
- Extensive recycling of demolition debris.

UTILITY LOCATION – \$1 MILLION

- Identified location and type of all utilities at 553 bridge replacement sites.
- Provided utility plan sheets for 553 bridges.
- Identified utility company contacts and agreements.
- Recognized by the American Council of Engineering Companies for innovation in contracting by completing this effort in less than 2 months.

MISCELLANEOUS COSTS - \$600,000

- Financial consulting and legal analysis.
- Signs and Barricades.
- Graphic Displays and Public Information graphics.